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DOCKET NO.: MS303183.2/MSFTP397USA

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of

Applicant: **Andrew D. Wilson, et al.**
Serial No.: **10/724,950**
Filed: **December 1, 2003**
For: **ARCHITECTURE FOR CONTROLLING A COMPUTER USING HAND GESTURES**
Art Unit: **2621**
Examiner: **Unknown**

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Alexandria, Virginia 22313-1450

Sir:

1. Pursuant to 37 C.F.R. 1.97 and 1.98, and in compliance with 37 C.F.R. 1.56, the Office's attention is directed to the patents, publications and other information listed on the attached PTO-1449. A copy of each listed document is enclosed except for: (a) pending applications or (b) those previously cited or submitted to the Office in the following application(s) upon which this application relies for an earlier filing date under 35 U.S.C. 120; or (c) U.S. Patent(s) and published applications(s) since the subject application was filed after June 30, 2003.

Serial No.: 10/396,653
Filing Date: 03/25/03

Regarding any document, publication or other information for which a date is not given on the attached PTO-1449, Applicant(s) believe(s) the same may qualify as "prior" art to this application and should be treated accordingly, although Applicant(s) reserve(s) the right to contest the prior art status of any document, publication or information, should issue arise.

2. Regarding each listed document that is not in the English language, an English-language translation accompanies this Statement as indicated on the attached PTO-1449 or a concise explanation of the relevance of the document is set forth in the following document(s):

(a) ☐ Copy of each English language version of a search report indicating the degree of relevance found by the foreign office of each document being submitted from the search report.

(b) ☐ Attachment entitled "Concise Explanation of Relevance of Non-English Language Documents".

3. Pursuant to 37 C.F.R. 1.97(b) this Statement is being filed (one must be checked):

(a) ☐ Within 3 months of the filing date or date of entry into the National Stage.

(b) ☒ Before the mailing date of a first Office Action on the merits. If this Statement is not filed before the mailing date of a first Office Action on the merits, the required certification is given below or, in the absence thereof, the Office is authorized to charge the required fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 50-1063 for consideration of this Statement.

The PTO did not receive the following
listed item(s) REFERENCES LISTED
UNDER THE IDS

(c) ___ After the period set forth in 37 C.F.R. 1.97(b) but before the mailing date of either a final action or a notice of allowance.

(1) ___ The required certification is given below, or

(2) ___ Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(p) for consideration of this Statement, or

(3) ___ Charge the fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 50-1063.

(d) ___ After the mailing date of either a final action or a notice of allowance, but before payment of the issue fee.
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(2) ___ Charge the fee set forth in 37 C.F.R. 1.17(i)(1) to Deposit Account No. 50-1063.

4. Certification (if applicable)

(a) ___ The undersigned hereby certifies that each item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than 3 months prior to the filing of this Statement.

(b) ___ The undersigned hereby certifies that no item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the undersigned's knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. 1.56(c) more than 3 months prior to the filing of this Statement.

5. The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 50-1063.

Respectfully Submitted,

By Jeffrey R. Sadlowski
Jeffrey R. Sadlowski
Reg. No. 47,914

24TH Floor, National City Center
1900 East 9th Street
Cleveland, Ohio 44114
(216) 696-8730

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence (along with any paper referenced as being attached or enclosed) is being deposited on the below date with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, Alexandria, Virginia 22313-1450.

Date: 5-19-2004

Jeffrey R. Sadlowski
Jeffrey R. Sadlowski



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/724,950		
		Filing Date	12/01/03		
		First Named Inventor	Andrew D. Wilson		
		Art Unit	2621		
		Examiner Name	Unknown		
Sheet	1	of	3	Attorney Docket Number	MS303183.2/MSFTP397USA

U.S. PATENT DOCUMENTS					
Examiner Initials ⁷	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US- 6,594,616	07-15-2003	Zhang, et al.	
		US- 6,591,236	07-08-2003	Lewis, et al.	
		US- 6,476,834	11-05-2002	Doval, et al.	
		US- 6,377,296	04-23-2002	Zlatsin, et al.	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials ⁷	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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Sheet	2	of	3	Attorney Docket Number	MS303183.2/MSFTP397USA

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		R. SHARMA, et al., Speech-Gesture Driven Multimodal Interfaces for Crisis Management, Proceedings of the IEEE, 2003, pp. 1327-1354, Vol. 91-Issue 9.	
		WILL FITZGERALD, et al., Multimodal Even Parsing for Intelligent User Interfaces, IU'03, 2003, pp. 53-60, Miami, Florida, USA.	
		ANDREW WILSON, et al., GWindows: Towards Robust Perception-Based UI, Microsoft Research, 2003, pp. 1-8.	
		THOMAS B. MOESLUND, et al., A Survey of Computer Vision-Based Human Motion Capture, Computer Vision and Image Understanding, 2001, pp.231-268, Vol. 81-Issue 3, Elsevier Science Inc., New York, New York, USA	
		ZHENGYOU ZHANG, Flexible Camera calibration by Viewing a Plane from Unknown Orientations, Microsoft Research, 1999, 8 pages.	
		SHARON OVIATT, Ten Myths of Multimodal Interaction, Communications of the ACM, 1999, pp. 74-81, Vol. 42-Issue 11, ACM Press, New York, New York, USA.	
		IKUSHI YODA, et al., Utilization of Stereo Disparity and Optical Flow information for Human Interaction, Proceedings of the Sixth International Conference on Computer Vision, 1998, 5 pages, IEEE Computer Society, Washington D.C., USA.	
		AILEEN WORDEN, et al., Making Computers Easier for Older Adults to Use: Area Cursors and Sticky Icons, CHI 97, 1997, pp. 266-271, Atlanta, Georgia, USA.	
		CLAUDETTE CEDRAS, et al., Motion-Based Recognition: A Survey, University of Central Florida, 1995, pp. 1-41, Orlando, Florida, USA.	
		SHUMIN ZHAI, et al., The "Silk Cursor": Investigating Transparency for 3D Target Acquisition, CHI'94, 1994, pp. 273-279.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		Application Number	10/724,950		
		Filing Date	12/01/03		
		First Named Inventor	Andrew D. Wilson		
		Art Unit	2621		
		Examiner Name	Unknown		
Sheet	3	of	3	Attorney Docket Number	MS303183.2/MSFTP397USA

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		THOMAS BAUDEL, et al., CHARADE: Remote Control of Objects using Free-Hand Gestures, Communications of the ACM, 1993, pp. 28-35, Vol. 36-Issue 7, ACM Press, New York, New York, USA.	

Examiner Signature		Date Considered	
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